

MediaMatrix®

A Division of Peavey Electronics Corporation



VSC-51 Quick Set-Up Guide

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The ratc-server component is based in part on the work of the libwebsockets project: <http://libwebsockets.org>.

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Scope

This guide describes how to configure a VSC-51 Mini Video Scaler with basic settings.

1 - Important safety instructions

Warning: When using electrical products, basic cautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Write for our free booklet *Shock Hazard and Grounding*. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. **Note for UK only:** If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
 - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol,

- b) colored green or colored green and yellow.
 - c) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
 - d) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
 19. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
 20. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day in Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

SAVE THESE INSTRUCTIONS!

2 - Introduction

What is VSC-51?

VSC-51 is a full HD video scaler switcher. The device scales and switches any HDMI, VGA, YPbPr, C-Video or S-video video signal to HDMI up to 1080P. It is controllable via buttons on the front, the IR sensor and the RS232 port. It has 6 video inputs and 5 audio inputs.

Features

- 6 video Inputs: 2 x HDMI, 1 x VGA, 1 x YPbPr, 1 x C-video & 1 x S-video.
- Upscale to HDMI output at 1080P.
- 3 audio outputs: HDMI embedded audio, 3.5mm stereo audio and Coaxial (SPDIF).
- Selectable output resolutions.
- Adjustable display output H/V size to solve overscale problems.
- H/V adjustable display output position.
- Picture/MP3 display via USB (low-cost video player for a free-standing Kiosk).
- Powerful OSD function with full control; supports output freeze function.
- Presets of video parameters can be saved and selected from the on-screen display.
- Fast switching between source inputs eliminating visible transition.
- HDMI1.3 and HDCP compatible.
- Firmware upgradable via USB.
- Front panel lockout.
- Controllable via button, IR and RS232.

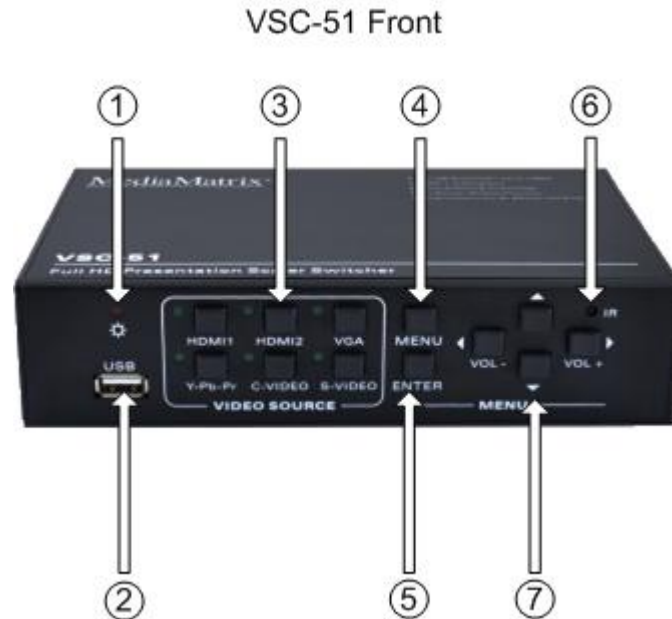
What's in the box?

VSC-51 products are packaged in a single container. This container includes the following items:

- 1x VSC-51
- 1 x Power adapter (DC 12V)
- 1 x IR remote (cell battery is not included)
- 1 x Captive screw connector
- 1 x user manual.

If any of these items are missing, please contact your Authorized Peavey MediaMatrix contractor/dealer.

VSC-51 front and rear



1. POWER: Lit (red) when the external power supply is connected properly.
2. USB input. This is used for firmware updates, or to play JPEG presentations, or MP3 audio.

Note: These features are controlled using the On-Screen Display (OSD), so a video display must be connected to the HDMI output.

3. Video / audio source selection buttons.
4. MENU: Activates the OSD. Also can be used to cancel the last operation.
5. ENTER: When the on screen menu is accessed, this button confirms a selected option. When USB mode is used, the ENTER button starts the playback of a selected media file.
6. IR (infrared) internal receiver. For use with the remote control.
7. When the OSD is not in use, the left button and the right button are used for volume control (VOL-, VOL+). When the OSD mode is enabled, the direction keys are used to navigate through the on-screen menus to select picture settings, audio settings etc.





VSC-51 Rear



1. 12V DC: External power supply connector.
2. RS232: Serial connector for bi-directional pass-thru communications.
3. VGA video input.
4. VGA stereo audio input.
5. YPbPr and stereo audio input.
6. S-Video/C-Video and stereo audio input.
7. HDMI output. Embedded with digital audio with level controlled by scaler.
8. Stereo audio output. The audio from the selected video will be switched to this output, including embedded HDMI audio.
9. HDMI inputs. HDCP 1.3 is supported.
10. Coaxial audio output, with SPDIF format. The audio from the selected video will be switched to this output.

Infrared remote control



	Source selection controls. Audio is automatically selected when video is selected.
	Special features not available using front panel.
	OSD and volume controls.
	Output resolution selection controls.
	Tip: The output resolution can be set using the OSD, RS-232 serial commands, or using the remote control.

3 - Setting up the unit using the OSD

Introduction

The product provides an On-Screen Display (OSD) menu with support for English and Chinese languages.

Note: Many of the features are used only during initial installation and setup.

Specifying the picture parameters



The first icon from the left of the OSD menu is used to set the picture parameters.



The settings include the picture mode presets, color temperature, contrast, brightness, hue, saturation, sharpness, scale, and Advance picture adjust. The Advance Picture Adjust is used to enable/disable the Digital Noise Reduction (DNR), Color Trend Increase (CTI), flesh tone and Adaptive Luma Control.

Note: Not all parameters are available with all inputs.

Specifying the audio parameters



The second icon from the left of the OSD menu is used to set the audio parameters.



The settings include sound effect presets, bass, treble, balance, scene mode, surround and smart volume setting.

Note: Not all parameters are available with all inputs.

Specifying the system parameters



The third icon from the left of the OSD menu is used to set the system parameters. These include the OSD language, Listen, output image freeze, VGA setting and output adjustment.

Language	Toggles between English and Chinese.
Listen	Audio output only. To resume video output, press the MENU button.
VGA setting	Adjust the H/V signal of VGA input, including auto adjustment.
Output adjustment	Adjust H/V size and H/V position of the output.



Note: Not all parameters are available with all inputs.

Viewing photos and playing audio via the USB port



The fourth icon from the left of the OSD menu is used to browse the contents of a USB flash disk inserted into the USB port at the front of the VSC-51. You can play MP3 files and view JPG files.

When displaying JPG images, you can set the presentation order (random, sequence or manual), and the presentation speed (fast, medium or slow).



When you select USB, the screen below will be displayed. You can browse the available folders and select files from the USB flash disk.



Use the arrow buttons to navigate, and the ENTER button to confirm a selection. Use the MENU button to return to the previous page.

When using the remote control, press OK to confirm a selection. Use the RETURN button to return to the previous page.

Note: A screen resolution of 1024x768 is not supported by the USB interface.

4 - Maintaining the unit

Updating the firmware

You can update the firmware on the VSC-51 using a flash disk inserted into the USB port at the front. *MediaMatrix Technical Support* (<mailto:mmtechsupport@peavey.com>) will provide you with the files you need to install on the flash drive and explain the procedure.

» To update the firmware

1. Copy the new firmware file to the main (root) directory of a USB flash disk.
2. Connect the VSC-51 to a video monitor via the HDMI output.
3. Plug the USB flash disk into the VSC-51 USB port.
4. Press and hold the MENU button for 15 seconds or until the update menu appears on the video monitor.

The VSC-51 will automatically find and install the new firmware from USB flash disk.

5. After the update is finished, reboot and send the command 0617% to the RS-232 serial port to restore the unit to factory settings.
6. Reboot once again to finish the process.

Tip: If sending the RS-232 command to restore factory settings is unsuccessful, change the output baud rate to 115200 and try again. Remember to return the unit to the normal serial communication settings: RS-232, baud rate: 9600, data bit: 8, stop bit: 1, parity: none.

Troubleshooting

Problem	What to do
No output image	Check if there is any signal at the input. Check if there is any signal at the output. You can check these using an oscilloscope or a multimeter.
Ghosting on image	This is generally is not a faulty switch/scaler, but may be caused by poor quality cabling (to or from the switch/scaler), or incorrect setup on the display. Check cables and their connections, as well as the display setup.

Problem	What to do
Waves on image	If the output image has waves, especially if the waves move up or down, check that all devices and components (video players, computers, etc.) are grounded properly.
Static or waves become stronger when connecting using RCA connectors	Possibly due to incorrect grounding. Check grounding immediately. This could cause damage to the VSC device.
Remote control not working	Check that the batteries are inserted correctly. Check that the batteries are charged. Replace batteries as necessary.
RS-232 control not working	<p>Check that the baud rate on the VSC device matches the baud rate set on the connected device.</p> <p>When a computer is being used, check that the COM port set on the computer matches the COM port set in the OSD on the VSC device.</p> <p>Make sure the serial port is in good working condition.</p> <p>Try swapping the TX and RX at one one.</p>
Power LED unlit	Make sure the power cord connection is good, and that the adapter (if used) is working. Make sure that there is power at the outlet.
Device does not respond when buttons are pressed on the front, when the remote control is used or when RS-232 communications are active.	The VSC device may need repair. Contact your dealer.

5 - Reference information

Specification

Video input		Video output	
Input	2 HDMI, 1 VGA, 1 YPbPr, 1 C-Video, 1 S-Video, 1 USB multimedia input	Output	1 HDMI
Video signal	HDMI 1.3/DVI, VGA, RGBHV, RGBs, RGsB, RsBsGs, SECAM, PAL, NTSC 3.58, NTSC 4.42, MPEG /AVI /JPG for USB input	Video signal	HDMI
Video General			
Resolution range	1080P, 1920x1080; 720P, 1280x720; WXGA, 1280x800; XGA, 1024x768.	Bandwidth	HDMI: 4.95Gbps (1.65Gbps per color) C-Video/S-Video: 150 MHz YPbPr: 170MHz VGA: 375MHz
Maximum pixel clock	145MHz	Video impedance	75Ω
VGA cross talk	-50dB @ 5MHz	Input/output level	0.5V~2.0Vp-p
Gain	0dB	HDCP	Compliant with DVI & HDMI 1.3 standards

Audio input		Audio output	
Input	3 Stereo Audio (RCA), 2 embedded HDMI audio	Output	stereo audio, S/PDIF COAX, and HDMI audio
Input connector	RCA for YPbPr, C-Video & S-Video audio, 3.5mm jack for VGA audio, HDMI for embedded audio	Output connector	3.5mm jack for line audio, RCA for CO-AX audio (SPDIF), HDMI for embedded audio
Input impedance	>10kΩ	Output impedance	50Ω
Audio general			
Frequency response	20Hz~20K Hz	Stereo channel separation	>80dB @ 1KHz
CMRR	>90dB @ 20Hz to 20K Hz		
Control parts			
Control/Remote	IR remote, Buttons & RS-232 serial		
General			
Communication protocol	RS-232 Control Protocol Command type: ASCII Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none		
Temperature	-20C ~ +45C	Humidity	10% ~ 90%
Power supply	DC12V adapter	Power consumption	7W
Case dimension	W 7 1/2" (195mm) with ears H 1 3/4" (44mm) D 4 3/8" (110mm) (wall mountable)	Product weight	0.4kg

Supported video formats

VSC-51 supports many types of video signals, including C-Video, S-Video, YPbPr, VGA and HDMI. All inputs are scaled to the selected HDMI format output.

C-Video and S-Video input

- Supports PAL, SECAM and NTSC formats.
- From the OSD, the aspect ratio can be set to full-screen, wide screen or 4:3.

YPbPr input

The aspect ratio can be set to full-screen, wide screen or 4:3.

The maximum bandwidth is 170MHz.

Input resolution	Display parameter				
	Frame mapping	Scanning lines	Frame frequency	Refresh rate Hz	Aspect ratio
720 x 480 I	2:1	525	15.75	60	4:3
720 x 480 P	1:1	525	31.5	60	4:3
720 x 576 I	2:1	625	15.625	50	4:3
720 x 576 P	1:1	625	31.25	50	4:3
1280 x 720 P	1:1	750	45	60	16:9
1280 x 720 P	1:1	750	37.50	50	16:9
1920×1080 I	2:1	1125	28.125	50	16:9
1920×1080 I	2:1	1125	33.75	60	16:9
1920×1080 I	2:1	1250	31.25	50	16:9
1920×1080 P	1:1	1250	62.5	50	16:9
1920×1080 P	1:1	1250	67.5	60	16:9

VGA input

The VGA resolution is VESA standard. The following resolutions are supported.

The maximum bandwidth is 375MHz (-3dB). The aspect ratio can be changed between full screen and 4:3.

No.	Resolution	No.	Resolution
1	640×480@60Hz	8	1024×768@70Hz
2	640×480@72Hz	9	1024×768@75Hz
3	720×400@70Hz	10	1280×1024@75Hz
4	800×600@60Hz	11	1280×768@60Hz
5	800×600@72Hz	12	1360×768@60Hz
6	800×600@75Hz	13	1920×1080@60Hz
7	1024×768@60Hz		

HDMI input

HDMI features:

- Digital embedded audio decoding, passing analog audio to the 3.5mm (1/8") stereo output.
- Changeable aspect ratio (full-screen, wide screen, 4:3, auto-adjust).
- Support for HDCP1.3, compatible with DVI signal.

No.	Resolution	No.	Resolution
1	640×480@60Hz	9	1024×768@70Hz
2	640×480@72Hz	10	1024×768@75Hz
3	640×480@75Hz	11	1280×1024@75Hz
4	800×600@56Hz	12	1360×768@60Hz
5	800×600@60Hz	13	1920x540
6	800×600@72Hz	14	1920x1080I@(50Hz/60Hz)
7	800×600@75Hz	15	1920x1080P@(50Hz/60Hz/24Hz/30Hz)
8	1024×768@60Hz		

Audio input/output

- 3 Stereo audio inputs and 2 HDMI embedded audio inputs.
- 3 simultaneous audio outputs:
 - 3.5mm stereo audio
 - COAX (SPDIF)
 - embedded audio to the HDMI output.
- Volume level adjustable from front panel.
- Volume, bass, and treble adjustable from OSD and RS-232 commands.
- Audio status presets.

USB input

- Supports playback of JPG video files as a slideshow and MP3 audio files on a USB flash drive.
- Supports firmware updates. See *Updating the firmware* (on page 11).
- Can be configured using the OSD.
- The slideshow and MP3 audio can be played at the same time.
- USB provides a maximum of 5VDC, 500 mA.

Communication protocols and command codes

Command	Function	Feedback Example
0600%	MUTE	Mute On
0601%	Unmute	Mute Off
0602%	Audio level up	Volume: XX
0603%	Audio level down	Volume: XX
0604%	Lock the front panel buttons	Panel Locked
0605%	Unlock the front panel buttons	Panel UnLocked
01XX%	Preset the volume. The XX is ranging from 00 to 99	Volume: XX
02XX%	Set brightness. The XX is ranging from 00 to 99	Brightness: XX
03XX%	Set contrast. The XX is ranging from 00 to 99	Contrast: XX
04XX%	Set saturation. The XX is ranging from 00 to 99	Saturation: XX
05XX%	Set sharpness. The XX is ranging from 00 to 07	Sharpness: XX
0606%	Auto-adjust the input parameter(VGA only)	VGA Adjustment
0607%	Auto-adjust the color temperature	Color Temp: XX
0608%	ZOOM the image, set the aspect ratio	Aspect Ratio: XX
0609%	OK, for OSD selection	OK
0610%	Left arrow OSD	Left
0611%	Right arrow OSD	Right
0612%	Up arrow OSD	Up
0613%	Down arrow OSD	Down
0614%	Change (step through) picture mode	Picture Mode : XX
0615%	Change (step through) audio mode	Sound Mode: XX

Command	Function	Feedback Example
0616%	Opens the OSD menu.	MENU
0617%	Reset to factory defaults	Factory reset
0620%	Select the HDMI1 input	Source: HDMI 1
0621%	Select the HDMI2 input	Source: HDMI 2
0622%	Select the VGA input	Source: VGA
0623%	Select the YPbPr input	Source: YPbPr
0624%	Select the S-Video input	Source: SVIDEO
0625%	Select the composite video input	Source: CVIDEO
0626%	Select the output resolution of; 1024X768 XGA	Resolution: XGA 1024X768
0627%	Select the output resolution of; 1280X720 720P	Resolution: 720P 1280X720
0628%	Select the output resolution of; 1280X800 WXGA	Resolution: WXGA 1280X800
0629%	Select the output resolution of; 1920X1080 1080P	Resolution: 1080P 1920X1080
0630%	Check the volume level	Volume: XX
0631%	Check the input source	Source: XXXXXX
0632%	Check the output resolution	Resolution: XXXXXX
0633%	Check the image mode	Picture Mode : XX
0634%	Check the audio mode	Sound Mode: XX
0635%	Check the image aspect ratio	Aspect Ratio: XX
0636%	Check the brightness	Brightness: XX
0637%	Check the contrast	Contrast: XX
0638%	Check the saturation	Saturation: XX
0639%	Check sharpness	Sharpness: XX
0640%	Check the color temperature	Color Temp: XX
0699%	Check the firmware version	VSC-51 V XXXXX

Command	Function	Feedback Example
0644%	OSD CHANNEL display enabled	OSD Source: Display
0645%	Shield OSD CHANNEL (all OSD features disabled)	OSD Channel (Source):No Display
0646%	Volume Bar display enable	Volume Bar: Display
0647%	Volume Bar display disable	Volume Bar: No Display
0648%	Enable digital audio (HDMI and SPDIF) output	Digital Sound Ouput: Enable
0649%	Disable digital audio (HDMI and SPDIF) output	Digital Sound Ouput: Disable
0650%	Check OSD CHANNEL display status	OSD Source: Display
0651%	Check Volume Bar display status	Volume Bar: Display
0652%	Check Digital audio output status	Digital Sound Ouput: Enable or Disable
0655%	Freeze output image	Freeze: Enable
0656%	Cancel freeze of output image	Freeze: Disable

Warranty statement

MediaMatrix®
PEAVEY ELECTRONICS CORPORATION
DOMESTIC (USA) LIMITED WARRANTY
Effective Date: May 1, 2005

What This Warranty Covers

This Warranty covers defects in material and workmanship in Peavey MediaMatrix products purchased and serviced in the United States of America (USA).

What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized MediaMatrix Integrator. This warranty does not cover associated costs incurred from servicing equipment, including, but not limited to, travel, jobsite-related costs, fabrication, freight, loaner equipment, installation, cabling or harnessing, mounting materials or other variable costs.

Who This Warranty Protects

In applications where the product is sold *over the counter*, this Warranty protects the original retail purchaser. In applications where the product is part of an integrated system, and such system is warrantied by the integrator as a complete assembly, this Warranty protects only the system integrator.

How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser or on the date received by the system integrator. (See *Who This Warranty Protects*, above). The duration of the Warranty varies by product as summarized below.

5 Years	MediaMatrix® DPU cards, NION™ Processing Nodes, CABs, I/O cards, Cinema Processors Power Amplifiers, Pre-Amplifiers, Mixers, Electronic Filter Sets and Dynamics Processors.
1 Year	MM Series Cardframes, MF Series Cardframes, ControlMatrix™ Host Processors, Servers and Controllers, nControl, nTouch 180, nTouch 60, xControl LCDs, nWall, VCAT, VCAT-HD, VGA-2, VSC, Claro Remote Control Panels, Plates, Paging Stations, Ambient Sense Devices and other devices installed in user-accessible locations.

90 Days	Loudspeaker Components (including speakers, baskets, drivers, diaphragm replacement kits and passive filter networks.) and all Accessory Products
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What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping costs. If the repairs are covered by warranty, Peavey will pay the return shipping costs.

How To Get Warranty Service

End Users: Take the defective product and your dated sales receipt or other proof of purchase to your Authorized MediaMatrix Systems Integrator or Authorized Peavey Service Center. System Integrators: Ship the defective product, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301, 601-483-5365. Include a detailed description of the problem, the name and location of the jobsite and a copy of your invoice as evidence of warranty coverage. Please include a complete return shipping address.

Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this warranty or service received, or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365.

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